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TITLE : HIGH-DAMPING COMPOSITE STEEL SHEET AND ITS PRODUCTION

ABSTRACT : PURPOSE: To develop a high-damping composite steel sheet excellent in press workability as well as rust-preventing property and causing no blister at baking finish by phosphating both sides of steel sheets, removing water of crystallization, putting a viscoelastic substance between the two of the above steel sheets and then carrying out cladding.

CONSTITUTION: Phosphating films are formed on the surfaces of galvanized sheets, hot-rolled steel plates, cold-rolled steel sheets, etc., of 0.2~1.6mm thick by $\geq 0.5\text{g/m}^2$ plating quantity per one side. These steel sheets are heated to 160~220°C to remove water of crystallization in the phosphating films. Then, between the two of the above surface-treated steel sheets, the viscoelastic substance such as ethyleneacrylic acid copolymer resin, modified polyethylene resin, modified polypropylene resin, vinyl acetate resin, etc., is provided as vibration-damping material in 0.03~0.6mm thickness, which is subjected to forced cladding to form the high-damping composite steel sheet having superior characteristics.

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